

Message Text

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TO USMISSION OECD PARIS
INFO AMEMBASSY COPENHAGEN

C O N F I D E N T I A L STATE 096331

EXCON

E.O. 11652: XGDS-1

TAGS: ESTC, COCOM, DA, UR

SUBJECT: DANISH SPECTRUM ANALYZERS TO USSR--IL 1533

REF: 1) OECD PARIS 7466, 2) COCOM DOC (76) 1729,
3) COCOM DOC (76) 2001, 4) 76 STATE 35869,
5) 76 COPENHAGEN 620, 6) 76 COPENHAGEN 1899;
7) COCOM DOC. DEF (76) 1529/18

1. SKELETON OF US REPLY TO DANISH BILATERAL LETTER (REF 1)
RE US OBJECTION TO REF 2 APPEARS IN PARAS 2-4 BELOW. WE
LEAVE TO DISCRETION OF USDEL THE PHRASEOLOGY AND ORGANIZA-
TION OF HIS LETTER OF REPLY. BACKGROUND INFORMATION CON-
CERNING OUR RATIONALE FOR OBJECTION (REF 3) MAY BE FOUND
IN REF'S 4 THRU 6, ALL OF WHICH WERE REPEATED INFO TO US
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MISSION OECD PARIS.

2. US OBJECTION TO REF 2 WAS PREDICTED ON THE CAPA-
BILITIES OF THE DANISH SPECTRUM ANALYZERS IN THE APPLICA-
TIONS IN WHICH END USER IS ENGAGED RATHER THAN ON A PARA-
METER BASIS ALONE. FOR SOME TIME, US DEFENSE AUTHORITIES
HAVE HAD GRAVE CONCERN RE ACQUISITION BY COCOM PROSCRIBED

COUNTRIES, PARTICULARLY THE USSR, OF ELECTRONIC INSTRUMENTS CAPABLE OF RAPID ANALYSIS OF LOWER FREQUENCY SIGNALS FOR APPLICATION IN ASW, INCLUDING RESEARCH IN SHIP-QUIETING TECHNIQUES. DEVICES OF SPECIAL CONCERN ARE THOSE USING RECIRCULATING DELAY LINES FOR TIME COMPRESSION OF INPUT SIGNALS, BOTH TYPES OF DEVICES FALLING UNDER IL 1529 (B) (4) AND/OR IL 1533 (D). SEVERAL INSTRUMENTS MADE IN THE US AND IN OTHER COCOM COUNTRIES HAVE BEEN IDENTIFIED BY US NAVAL EXPERTS AS FALLING WITHIN THE AREA OF CONCERN. TWO OF THESE ARE THE DANISH-MADE BRUEL AND KJAER MODELS 3348 AND 7502, THE LATTER BEING A COMPONENT IN THE EQUIPMENT COVERED BY REF 2. THE REASONS FOR THE US CONCERN OVER THIS CATEGORY OF ELECTRONIC INSTRUMENTS, INCLUDING THE BRUEL AND KJAER EQUIPMENT, WAS CONVEYED TO THE CHIEF, FIRST OFFICE, DANISH MINISTRY OF DEFENSE ON FEBRUARY 16, 1976 BY THE DEFENSE ATTACHE'S OFFICE IN AMEMBASSY COPENHAGEN.

3. GIVEN THE CONSIGNEE IN REF 2 -- THE ACOUSTIC INSTITUTE OF THE SOVIET ACADEMY OF SCIENCES -- WHICH, ACCORDING TO US INFORMATION IS A MILITARY-ORIENTED RESEARCH ORGANIZATION ENGAGED IN WORK DIRECTLY RELATED TO ASW ACTIVITIES, US NAVAL EXPERTS EXAMINED THE EQUIPMENT COVERED BY THE DANISH EXCEPTION REQUEST. THEY CONCLUDED: (A) THE SPECTRUM ANALYZER SYSTEMS, WHICH ARE COMPARABLE TO THE USN AN/BQR-20 SONAR RECEIVING SET CURRENTLY USED IN US SUBMARINES, CAN PRODUCE A NARROW BAND ANALYSIS WELL WITHIN ASW FREQUENCIES OF INTEREST; AND (B) THE DANISH SYSTEMS DO NOT REPRESENT A CURRENT STATE-OF-THE-ART IN

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PROCESSING TIME CAPABILITIES BUT CAN PRODUCE THE SAME RESULTS ON A LIMITED NUMBER OF CHANNELS IN A LONGER TIME PERIOD. THESE SYSTEMS, WHILE NOT DESIGNED FOR SURFACE SHIPBOARD USE IN TACTICAL ASW OPERATIONS, NEVERTHELESS CAN BE EFFECTIVELY UTILIZED OFF-LINE IN EITHER A LABORATORY OR ON A SURFACE SHIP TO ANALYZE DATA COLLECTED BY ASW EQUIPMENT. THE RESULTS OF THAT ANALYSIS CAN BE USED FOR ASW PURPOSES. CONSEQUENTLY, IN THE SAME OPINION OF THE U.S. AUTHORITIES, THESE SPECTRUM ANALYZER SYSTEMS COULD CONTRIBUTE SIGNIFICANTLY TO THE ASW CAPABILITY OF THE USSR.

4. US AUTHORITIES NOTE THAT THE DANISH DEL MADE SPECIFIC REFERENCE TO A U.S. EXCEPTION REQUEST COVERING THE EXPORT OF A 2124XL16 FOURIER TRANSFORM DATA SYSTEM TO THE USSR COVERED BY COCOM DOC. EA (75) 479. HIS AUTHORITIES NO DOUBT HAVE COMPARED THEIR EQUIPMENT WITH THAT IN THE US CASE AND WONDER WHAT ARE THE DIFFERENCES, PARTICULARLY IN REGARD TO THE FOLLOWING ASPECTS: (1) THE US CASE

CONTAINED A VARIAN 620L-103 COMPUTER WHEREAS THE DANISH SUBMISSION INCLUDED A 7504 COMPUTER WHICH IS THE BRUEL AND KJAER VERSION OF THE US-ORIGIN 620L, AND (II) THE STATEMENT MADE BY THE US IN CONNECTION WITH ITS CASE THAT THE S124XL16 WAS NOT EMBARGOED UNDER IL 1529 (B) (4) SINCE ALL FUNCTIONS WERE PERFORMED BY SOFTWARE, WHICH IS ALSO THE SITUATION REGARDING THE DANISH SPECTRUM ANALYZERS. THE DANISH DEL WILL RECALL THE RECENT COCOM DISCUSSIONS CONCERNING FAST FOURIER TRANSFORM TECHNIQUES ENGENDERED BY THE US STATEMENTS IN REF 7, PARTICULARLY THOSE PERTAINING TO (A) THE DEVELOPING TECHNOLOGY IN THE DIGITAL SIGNAL PROCESSING AREA WHICH HAD SIGNIFICANT STRATEGIC IMPLICATIONS, SUCH AS ASW AND HIGH PERFORMANCE RADAR APPLICATIONS, AND (B) FFT WAS ONE OF THE METHODS USED IN DIGITAL SIGNAL PROCESSING TECHNIQUES AND HAD RAISED ANEW THE ISSUE OF THE STRATEGIC USE OF FFT, REGARDLESS OF WHETHER THOSE TECHNIQUES WERE IMPLEMENTED BY A COMPUTER

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OR AN INSTRUMENT EMBARGOED BY IL-1529 OR IL-1533. IN RETROSPECT THE US WAS IN ERROR WHEN IT MADE THE STATEMENT IN (II) ABOVE SINCE DEVELOPMENTS HAVE OVERTAKEN THE SITUATION AS IT STOOD IN 1975. IT IS TRUE THAT REF 2 WAS SUBMITTED IN DECEMBER 1976 PRIOR TO THE MARCH 1977 TABLING IN COCOM OF REF 7 BUT REF 3 CONTAINED THE THRUST OF THE PROBLEMS DESCRIBED IN REF 7.

5. WE NOTE FROM REF 6 THAT THE DANISH EMBARGO SECTION, FEDERATION OF DANISH INDUSTRIES (A NON-GOVERNMENT ORGANIZATION) DOES NOT CONSIDER THE BRUEL AND KJAER 3348 AND 7502 TO BE EMBARGOED SINCE THEY DO NOT "HAVE THE TECHNICAL DATA MOTIVATING" EMBARGO. WE ARE NOT SURE WHAT THIS MEANS IF THE 7502 DIGITAL EVENT RECORDER ITSELF PERFORMS FFT CALCULATIONS AS DESCRIBED IN ITS BROCHURE, WE CONSIDER IT EMBARGOED BY THE DEFINITION OF IL-1529 (B) (4), WHEREAS THE ENTIRE SPECTRUM ANALYZER IN REF 2 IS EMBARGOED BY IL 1533 (D), AN ASSESSMENT IN WHICH THE DANES CONCUR SINCE THEY SUBMITTED REF 2 UNDER THAT COVERAGE. WE ARE ALSO CONFUSED BY THE EMBARGO SECTION'S EVALUATION THAT THE 3348 IS UNEMBARGOED BY THE EXEMPTION OF NOTE 2 (B) IN IL 1529. THAT NOTE APPLIES ONLY TO DIGITAL VOLTAGE MEASURING APPARATUS COVERED BY IL 1529 (F) -- FORMERLY (G) ON THE 1972 LIST -- WHEREAS IF THE 3348 EMPLOYS FFT TECHNIQUES, IT WOULD, LIKE THE 7502, BE COVERED BY IL 1529 (B) (4).

6. WE DO NOT WISH TO RAISE THE ISSUES DISCUSSED IN PARA 5 ABOVE SINCE WE DO NOT CONSIDER THEM GERMANE TO THE REF 1 PROBLEM. SINCE, HOWEVER, THE MATTER OF THE BRUEL AND KJAER 3348 AND 7502 WAS RAISED WITH THE EMBARGO SECTION IN JUNE 1976 (REF 6), THE DANES MAY COUNTER WITH

THAT ASSESSMENT. IF, HOWEVER, THE DANISH DEL RAISES THAT MATTER, YOU MAY DRAW ON PARA 5 INFORMATION FOR REBUTTAL.

7. GIVEN THE SENSITIVITY OF THE INFORMATION CONTAINED IN PARA 2-4, PARTICULARLY THE USN ASSESSMENT IN PARA 3, .
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USDEL'S REPLY SHOULD BE CLASSIFIED CONFIDENTIAL AND HARD-CARRIED TO DANISH DEL. USDEL MAY WISH TO USE THAT OCCASION FOR A VERBAL EXPLANATION AS WELL AS A VEHICLE FOR CALLING TO THE ATTENTION OF THE DANES THAT EXPORTS OF THE BRUEL AND KJAER 7504 COMPUTER REQUIRE US REEXPORT AUTHORIZATION BECAUSE IT UTILIZES US-ORIGIN TECHNOLOGY. WE WOULD APPRECIATE A COPY OF THE LETTER GIVEN THE DANISH DEL AS WELL AS HIS REACTION. SO THAT AMEMBASSY COPENHAGEN IS KEPT INFORMED, WE WOULD APPRECIATE IT IF USDEL WOULD POUCH COPIES OF THE REVELANT COCOM DOCUMENTS AND THE DANISH LETTER (REF 1).

8. FOR EMBASSY COPENHAGEN: THERE IS NO ACTION REQUIREMENT FOR THE EMBASSY IN THIS MATTER. HOWEVER, SINCE YOU MADE THE INITIAL APPROACH TO THE DANES (REF 4), THE DANISH DEFENSE MINISTRY OR THE EMBARGO SECTION MAY CONTACT YOU, IN WHICH CASE YOU MAY DRAW ON THE ABOVE INFORMATION IN RESPONSE, BUT STRESS THAT SINCE THE ISSUE IS A COCOM MATTER, THE APPROPRIATE CHANNEL WOULD BE THROUGH THE DANISH AND US COCOM DELS.
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Message Attributes

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Copy: SINGLE
Sent Date: 28-Apr-1977 12:00:00 am
Decaption Date: 01-Jan-1960 12:00:00 am
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